

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 August 2004 (12.08.2004)

PCT

(10) International Publication Number
WO 2004/068639 A2

- (51) International Patent Classification⁷: **H01R**
- (21) International Application Number:
PCT/US2004/002818
- (22) International Filing Date: 29 January 2004 (29.01.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
032022840 30 January 2003 (30.01.2003) CN
- (71) Applicant (for all designated States except US): **MOLEX INCORPORATED** [US/US]; 2222 Wellington Court, Lisle, IL 60532 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **HAO, Yin** [CN/CN]; 889 Yinglun Road, Waigaoqiao Free Trade Zone, Pudong, Shanghai 200131 (CN).
- (74) Agent: **ZEITLER, Robert, J.**; Molex Incorporated, 2222 Wellington Court, Lisle, IL 60532 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2004/068639 A2

(54) Title: ZIF ELECTRICAL CONNECTOR

(57) Abstract: A ZIF electrical connector comprises a base and a sliding cover. The base defines a plurality of terminal-receiving cavities receiving a plurality of conductive terminals. The cover moves along a first direction and defines a plurality of through holes corresponding to the terminal-receiving cavities. The base defines a recess portion partly slant with the first direction. A slider moves in the recess portion and has a body and part of the body intervening with the cover. A drive means extends into the insulative housing and contacts with the body of the slider. When the drive means operates out of the insulative housing, the drive means drives the body to move along a second direction slant the first direction and further drive the cover to displace along the first direction between a first position and a second position.